

IN THE CLAIMS:

1. (Currently Amended) A housing for receiving a bearing component comprising:

a shaft projection including a groove profile prepared according to a ~~deformation process~~ one of a forging operation and an original shaping process which includes a casting operation;

5 a hollow section including an end area with a recess, said shaft projection being inserted into said recess and pressed together with said end area.

2. (Cancelled)

3. (Currently Amended) A housing for receiving a bearing component in accordance with Claim 1, wherein ~~said deformation process includes a forging operation and an operation for introducing residual compressive stresses~~ are introduced into the boundary layer of said groove profile.

4 - 6 (Cancelled)

7. (Currently Amended) A housing for receiving a bearing component, the housing comprising:

a shaft projection having a substantially round cross section with a center and including a groove profile prepared according to a deformation process or an original shaping process,

5 said groove profile further comprising a plurality of depressions arranged next to each other
in an axial longitudinal direction of said shaft projection and distributed in a circle segment-
like pattern over circumference of said shaft projection, said circle segment-like pattern having
a center of curvature offset from said center of said substantially round cross section;

10 a hollow section including an end area with a recess, said shaft projection being
inserted into said recess and being pressed together with said end area.

8. (Original) A housing for receiving a bearing component in accordance with Claim
7, wherein said circle segment-like pattern has angular extension characteristics in the range
of 80° to 140°.

9. (Original) A housing for receiving a bearing component in accordance with Claim
7, wherein three to eight of said depressions are arranged next to each other in axial
longitudinal direction of said shaft projection.

10 - 17 (Cancelled)

18. (New) A housing for receiving a bearing component in accordance with claim 7,
further comprising:

another plurality of depressions are distributed in a circle segment-like pattern over said
circumference of said shaft projection and are arranged diametrically opposite said plurality

5 of depressions, said center of said substantially round cross section being arranged between said center of curvature of said circle segment-like pattern of said plurality of depressions and a center of curvature of said circle segment-like pattern of said another plurality of depressions.

19. (New) A housing for receiving a bearing component in accordance with claim 18, wherein:

5 said centers of curvature of said circle segment-like pattern of said plurality of depressions and said circle segment-like pattern of said another plurality of depressions are arranged between said center of said substantially round cross section and an outside of said shaft projection.

20. (New) A housing for receiving a bearing component in accordance with claim 7, wherein:

5 an annular receiving element is connected to said shaft projection with said shaft projection extending radially outward from one side of said annular receiving element, said annular receiving element defining a through hole

21. (New) A housing for receiving a bearing component in accordance with claim 7, wherein:

said shaft projection formed of a solid material.

22. (New) A housing for receiving a bearing component in accordance with claim 7,

wherein:

said groove profile is formed by a non-cutting process.

23. (New) A housing for receiving a bearing component in accordance with claim 7,

further comprising:

residual compressive stresses incorporated into the boundary layer of said groove profile.

24. (New) A housing for receiving a bearing component in accordance with claim 1,

wherein:

an annular receiving element is connected to said shaft projection with said shaft projection extending radially outward from one side of said annular receiving element, said
5 annular receiving element defining a through hole

25. (New) A housing for receiving a bearing component in accordance with claim 1,

wherein:

said shaft projection formed of a solid material.

26. (New) A housing for receiving a bearing component in accordance with claim 1,

wherein:

said groove profile is formed by a non-cutting process.

27. (New) A housing for receiving a bearing component, the housing comprising:

a shaft projection having a substantially round cross section with a center of curvature, a circumferential direction and an axial longitudinal direction, said shaft projection defining a plurality of depressions on an outside of said shaft projection, each said depression being
5 shaped as a segment of a circle extending in said circumferential direction of said shaft projection, a center of curvature of said segments of a circle being spaced from said center of curvature of said substantially round cross section, said depressions being arranged next to each other in said axial longitudinal direction of said shaft projection;

a hollow section including an end area with a recess, said shaft projection being
10 arranged in said recess and being pressed together with said end area.

28. (New) A housing for receiving a bearing component in accordance with claim 27, further comprising:

another plurality of depressions arranged on an outside of said shaft projection diametrically opposite said plurality of depressions, each of said another depressions being
5 shaped as a segment of a circle and extending in said circumferential direction of said shaft projection, a center of curvature of said another segments of a circle being spaced from said center of curvature of said substantially round cross section;

said center of curvature of said substantially round cross section being arranged

between said centers of curvature of said plurality of depressions and said another plurality of
10 depressions.

29. (New) A housing for receiving a bearing component in accordance with claim 28,
wherein:

said centers of curvature of said plurality of depressions and said another plurality of
depressions are arranged between said center of curvature of said substantially round cross
15 section and said outside of said shaft projection.

30. (New) A housing for receiving a bearing component in accordance with claim 27,
further comprising:

an annular receiving element connected to said shaft projection with said shaft
projection extending radially outward from one side of said annular receiving element, said
5 annular receiving element defining a through hole

31. (New) A housing for receiving a bearing component in accordance with claim 27,
wherein:

said plurality of depressions are formed by a non-cutting process.

32. (New) A housing for receiving a bearing component in accordance with claim 27,
further comprising:

residual compressive stresses incorporated into the boundary layer of said groove profile.